Google

[biometric authentication and system operator]   [Search]   Advanced Search
                                                              Preferences

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web   Results 1 - 10 of about 38,800 for biometric authentication and system operator. (0.31 seconds)

Biometric Login Security   Sponsored Links
www.Biopassword.com   Two Factor Authentication Software Free
Online Trial & Whitepaper.

Biometric authentication system sharing template data
among ...

[0003] A user of a biometric authentication system is first registered
by a system operator. The system operator obtains the individual's
name and other ...
www.freepatentsonline.com/20020010862.html - 55k -
Cached - Similar pages

   Biometric authentication system - Patent
   20040255168

   A biometric authentication system comprising: a terminal
   device having a ..... which increases the cost burden of the
   system operator and/or the user. ...
   www.freepatentsonline.com/20040255168.html - 97k -
   Cached - Similar pages
   [More results from www.freepatentsonline.com]

[PDF] **Biometric Authentication** Technology: From the
Movies to Your ...

File Format: PDF/Adobe Acrobat - View as HTML
Often, the life-cycle support cost of providing system administration. and
an enrollment operator can overtake the initial cost of the biometric
hardware. ...
www.itl.nist.gov/div893/biometrics/Biometricsfromthemovies.pdf -
Similar pages

[Paper] Modelling a **Biometric Authentication** Protocol for
3G ...

This entire system runs in parallel with the mobile operator MO
(ksb,ck,ik,k). ... that is the mobile operator's authentication of the
biometric sample ...
www.actapress.com/PDFViewer.aspx?paperId=22239 - Similar pages

PASCAL -

Multi-system Biometric Authentication: Optimal Fusion and User-Specific ... fusion
operator, study the joint phenomenon of combining system outputs with ...
eprints.pascal-network.org/archive/00002235/ - 12k - Cached - Similar pages

Method and **system** for biometric identification and **authentication ...**

With biometric authentication, an authorized user requests access using a .... and system
for exception mode authentication with system operator biometric ...
www.freshpatents.com/Method-and-system-for-biometric-identification-and-
authentication-having-an-exceptio... - 35k - Cached - Similar pages

[DOC] Large Scale Evaluation of Multimodal **Biometric Authentication ...**
File Format: Microsoft Word - View as HTML
Abstract: We examine the performance of multimodal **biometric authentication systems**
using state-of-the-art Commercial Off-the-Shelf (COTS) fingerprint and **...**
w3.antd.nist.gov/pubs/TPAMI-0373-1103-Final_Reprint.doc - Similar pages

LNCS 3934 - Analysing a **Biometric Authentication** Protocol for 3G **...**
Analysing a **Biometric Authentication** Protocol for 3G Mobile **Systems .....** This entire
system runs in parallel with the mobile **operator**. MO(ksb,ck,ik,k). **...**
www.springerlink.com/index/x57141q7m5l61751.pdf - Similar pages

Multi-**system Biometric Authentication**: Optimal Fusion and User **...**
Multi-**system Biometric Authentication**: Optimal Fusion and User-Specific Information **...**
score statistics and given a particular fusion **operator**/classifier. **...**
www.idiap.ch/publications/norman-poh-phd-thesis.bib.abs.html - 5k -
Cached - Similar pages

O'Reilly - Safari Books Online - 0131478249 - **Biometric ...**
Download "Biometric Authentication Systems" Biometric Authentication Systems **...**
The **system** can be made automatic and requires no human **operator**. **...**
safari.oreilly.com/0131478249/ch08lev1sec7 - Similar pages

1 2 3 4 5 6 7 8 9 10   **Next**

Try Google Desktop: search your computer as easily as you search the web.

biometric authentication and system   [Search]

Search within results | Language Tools | Search Tips | Dissatisfied? Help us improve

Google

| biometric authentication and system operator | Search | Advanced Search
Preferences |

The **"AND"** operator is unnecessary -- we include all search terms by default. [details]

Web   Results 11 - 20 of about 38,800 for biometric **authentication** and system **operator**. (0.24 seconds)

(WO/2003/098863) MATCH TEMPLATE PROTECTION WITHIN BIOMETRIC ...
Through interaction with a computing device, a **system operator** is able to .... Accordingly,
it is the **biometric authentication** model data that must be ...
www.wipo.int/pctdb/en/wo.jsp?IA=WO2003098863&DISPLAY=DESC - 66k -
Cached - Similar pages

(WO/2007/071288) BIOMETRIC AUTHENTICATION SYSTEM
A **biometric authentication system** configured to enable an **authentication** ... derived
from: a) individual receiver **operator** characteristic curve, ROC, data, ...
www.wipo.int/pctdb/en/wo.jsp?wo=2007071288&IA=WO2007071288&DISPLAY=CLAIMS -
21k - Cached - Similar pages
[More results from www.wipo.int]

[Abstract] Modelling a Biometric Authentication Protocol for 3G ...
Modelling a **Biometric Authentication** Protocol for 3G Mobile **Systems** using CSP ... It
provides end-to-end user **authentication** to the mobile **operator**, ...
www.actapress.com/PaperInfo.aspx?PaperID=22239 - Similar pages

[PDF] Biometric Authentication Systems
File Format: PDF/Adobe Acrobat - View as HTML
Biometric Authentication Systems. Vaclav Matyas Jr. ZdenekRıha ...... Better results can
be achieved if the **operator**. is able to tell the **system** exactly ...
www.fi.muni.cz/reports/files/older/FIMU-RS-2000-08.pdf - Similar pages

[PDF] USING CHIMERIC USERS TO CONSTRUCT FUSION CLASSIFIERS IN BIOMETRIC ...
File Format: PDF/Adobe Acrobat - View as HTML
formance of a fusion **operator** on a real-user database?. Based on. a considerable amount
of empirical **biometric** person **authentication** ...
bengio.abracadoudou.com/publications/pdf/poh_2006_icassp.pdf - Similar pages

Method and apparatus for producing a biometric identification ...
In an enterprise **biometric** identification/**authentication** and migration ... and **system** for
exception mode **authentication** with **system operator** biometric ...
www.freshpatents.com/Method-and-apparatus-for-producing-a-biometric-identification-
reference-template-dt2... - 34k - Cached - Similar pages

Characteristics of successful biometric identification methods
Ease of use by individuals and **system operators** ... **Biometric** security and business
ethics · **Biometric authentication**: what method works best? ...
www.technovelgy.com/ct/Technology-Article.asp?ArtNum=11 - 10k -
Cached - Similar pages

BIOMETRIX WEBLOG: BIOMETRIC AUTHENTICATION TECHNOLOGIES
BIOMETRIX WEBLOG: BIOMETRIC AUTHENTICATION TECHNOLOGIES ..... The
system enables the **operator** to check all the prints scanned are of a good enough
quality ...
biometrix.blogspot.com/ - 129k - Cached - Similar pages

Norman Poh's Homepage
It is commonly used in evaluating the performance of a combined **system** in **biometric authentication** (called a multimodal **biometric system**). ...
personal.ee.surrey.ac.uk/Personal/Norman.Poh/research.php?submenu=0 - 15k -.
Cached - Similar pages

[PDF] **A Biometric Authentication** Protocol for 3G Mobile **Systems ...**
File Format: PDF/Adobe Acrobat - View as HTML
to break the matching mechanism of the **biometric system**. or reveal the **biometric** template. ... strong **authentication** of the user to the mobile **operator**, ...
ijns.nchu.edu.tw/contents/ijns-v5-n1/ijns-2007-v5-n1-p99-111.pdf - Similar pages

Previous 1 2 3 4 5 6 7 8 9 10 11   **Next**

biometric authentication and system   Search

Search within results | Language Tools | Search Tips

©2007 Google - Google Home - Advertising Programs - Business Solutions - About Google

Web Images Video News Maps Gmail more ▾   Sign in

Google

| biometric authentication and system operator | Search | Advanced Search
                                                          Preferences

The "AND" operator is unnecessary -- we include all search terms by default. [details]

Web   Results 21 - 30 of about 38,800 for biometric authentication and system operator. (0.09 seconds)

A Multi-sample Multi-source Model for **Biometric Authentication** ...
By using the average operator, both the theoretical and. ... 4 Hybrid **Biometric**
Authentication System Using Face and Voice .. (context) - Poh, Korczak - ...
citeseer.ist.psu.edu/510148.html - 23k - Cached - Similar pages

[PDF] **Biometric Authentication System** Using Human Gait
File Format: PDF/Adobe Acrobat - View as HTML
Figure 2.1: Typical architecture of a **biometric authentication system**. .... and the **system**
operators must determine what trade-offs they are willing ...
e-collection.ethbib.ethz.ch/show?type=diss&nr=14603&part=fulltext - Similar pages

Keith Price Bibliography Watermarks for Copyright, Ownership ...
On the security of the SARI image **authentication system**, ICIP01(III: 971-974). .....
Securing Electronic Medical Records Using **Biometric Authentication**, ...
www.visionbib.com/bibliography/char993.html - 112k - Cached - Similar pages

USENIX ;login: - biometrics
We have described the components of a **biometric authentication system**. ... This
ensures both optimal safeguarding of the **operator** and a sense of ...
www.usenix.org/publications/login/1999-4/**biometrics**.html - Similar pages

[PDF] SAFLINK Corporation
File Format: PDF/Adobe Acrobat - View as HTML
authentication process. The **operator** interacts with the **Biometric** Security Layer which
upon **authentication**. logs the **operator** into the PROVOX **system** under ...
www.saflink.com/resources/files/WHITEPAPER_Emerson.pdf - Similar pages

Large-Scale Evaluation of Multimodal **Biometric Authentication** ...
Multimodal **Biometric Authentication**. Using State-of-the-Art **Systems** .... The **operators**.
meanδP and stdδP denote the arithmetic mean and standard ...
ieeexplore.ieee.org/iel5/34/30209/01388269.pdf - Similar pages

JIBC
The success of a **biometric authentication system** will depend on the method .... the
system operators have to be extremely vigilant and provide clear-cut ...
www.arraydev.com/commerce/JIBC/2006-04/VB.asp - 20k - Cached - Similar pages

HUMABIO - Human Monitoring and **Authentication** using Biodynamic ...
the **biometric authentication** enhancement via the use of new types of biometrics ... or
system operator without the interference and supervision of humans. ...
www.humabio-eu.org/results.html - 10k - Cached - Similar pages

[PDF] dentity apture uite
File Format: PDF/Adobe Acrobat - View as HTML
o Increased Security using **Biometric Authentication**. - Biometrically authenticate
operators using the **system** to capture an applicant's fingerprints to ...
www.iosoftware.com/Documents/IOS_ICS_V2-1.pdf - Similar pages

Large-Scale Evaluation of Multimodal **Biometric Authentication** ...
We examine the performance of multimodal **biometric authentication systems** using
state-of-the-art Commercial Off-the-Shelf (COTS) fingerprint and face ...
doi.ieeecomputersociety.org/10.1109/TPAMI.2005.57 - <u>Similar pages</u>

biometric authentication and system | Search |

<u>Search within results</u> | <u>Language Tools</u> | <u>Search Tips</u>

P❂RTAL
USPTO

Search: ⦿ The ACM Digital Library   ○ The Guide

biometric authentication and system operator   SEARCH

THE ACM DIGITAL LIBRARY

∎< Feedback Report a problem Satisfaction survey

Terms used: **biometric authentication** and **system operator**   Found **39,712** of **214,158**

Sort results by   relevance ▼   ❖ Save results to a Binder   Try an Advanced Search
Display results   expanded form ▼   ❓ Search Tips   Try this search in The ACM Guide
                                        ☐ Open results in a new window

Results 1 - 20 of 200   Result page: **1** 2 3 4 5 6 7 8 9 10   next
Best 200 shown   Relevance scale ☐ ▄ ▄ ∎ ∎

1 Workshops: HCI and security systems.
Andrew S. Patrick, A. Chris Long, Scott Flinn
April 2003 **CHI '03 extended abstracts on Human factors in computing systems CHI '03**
Publisher: ACM Press

Full text available: 🔖 pdf(229.00 KB). Additional Information: full citation, abstract, references, citings, index terms

This workshop will seek to understand the roles and demands placed on users of security systems, and explore design solutions that can assist in making security systems usable and effective. In addition to examining end-users, this workshop will also examine the issues faced by security system developers and operators. The goal of the workshop is to build a network of interested people, share research activities and results, discuss high priority areas for research and development, and explore o ...

Keywords: biometrics, passwords

2 Practice: 'Affective' computing and emotion recognition systems: the future of biometric surveillance?
Joseph Bullington
September 2005 **Proceedings of the 2nd annual conference on Information security curriculum development InfoSecCD '05**
Publisher: ACM Press
Full text available: 🔖 pdf(85.84 KB)   Additional Information: full citation, abstract, references, index terms

This paper concerns a subtopic of a larger research program called affective computing, referred to as affect recognition (the terms 'affect recognition' and 'emotion recognition' will be used interchangeably in this paper). It is proposed that computer systems based on affect recognition could play an important role in the next generation of biometric surveillance systems. In order to introduce affect recognition and its possible applications to the information security community, the present p ...

Keywords: affective computing, biometrics, surveillance

3
Real-world applications: papers: An evolutionary keystroke authentication based on ellipsoidal hypothesis space

Jae-Wook Lee, Sung-Soon Choi, Byung-Ro Moon
July 2007 **Proceedings of the 9th annual conference on Genetic and evolutionary**
               computation GECCO '07
Publisher: ACM Press
Full text available: ⬛ pdf(270.85 KB)   Additional Information: full citation, abstract, references, index terms

> Keystroke authentication is a biometric method utilizing the typing characteristics of
> users. In this paper, we propose an evolutionary method for stable keystroke
> authentication. In the method, typing characteristics of users are represented by n-
> dimensional vectors and an ellipsoidal hypothesis space, which distinguishes a collection
> of the timing vectors of a user from those of the others, is evolved by a genetic algorithm.
> A filtering scheme and an adaptation mechanism are also pre ...
>
> **Keywords**: biometric authentication, identity verification, keystroke biometrics,
> keystroke dynamics

4   Voice biometrics   ▬
Judith A. Markowitz
September 2000 **Communications of the ACM**, Volume 43 Issue 9
Publisher: ACM Press
Full text available: ⬛ pdf(240.49 KB)
                    ⬛ html(36.88 KB)   Additional Information: full citation, references, citings, index terms

5   Applications I: Parameter optimization for biometric fingerprint recognition using   ▬
    genetic algorithms
Tobias Scheidat, Andreas Engel, Claus Vielhauer
September 2006 **Proceeding of the 8th workshop on Multimedia and security MM&Sec**
               '06
Publisher: ACM Press
Full text available: ⬛ pdf(227.65 KB)   Additional Information: full citation, abstract, references, index terms

> In this paper, we suggest an optimization approach for fingerprint authentication using
> genetic algorithms. Our application was planned so that it can be used without great
> effort for different biometric systems. Instead of estimating the required parameters as in
> the case of some methods, here they are determined with the help of genetic algorithms.
> Our own test database consists of 1200 fingerprints of 12 persons. For the confirmation of
> the results, which were found out with this test set, th ...
>
> **Keywords**: biometrics, fingerprint, genetic algorithms, optimization

6   Poster session and reception: Assessing face and speech consistency for monologue ▬
    detection in video
H. J. Nock, G. Iyengar, C. Neti
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**
               MULTIMEDIA '02
Publisher: ACM Press
Full text available: ⬛ pdf(265.81 KB)   Additional Information: full citation, abstract, references, citings

> This paper considers schemes for determining which of a set of faces on screen, if any, is
> producing speech in a video soundtrack. Whilst motivated by the TREC 2002 (Video
> Retrieval Track) monologue detection task, the schemes are also applicable to voice and
> face-based biometrics systems, for assessing lip synchronization quality in movie editing
> and computer animation, and for speaker localization in video. Several approaches are

discussed: two implementations of a generic mutual-information-b ...

7 Network-based approach: Modeling cryptographic properties of voice and voice-
based entity authentication
Giovanni Di Crescenzo, Munir Cochinwala, Hyong S. Shim
November 2007 **Proceedings of the 2007 ACM workshop on Digital identity
management DIM '07**
Publisher: ACM
Full text available: 🔲 pdf(230.76 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Strong and/or multi-factor entity authentication protocols are of crucial importancein
building successful identity management architectures. Popular mechanisms to achieve
these types of entity authentication are biometrics, and, in particular, voice, for which
there are especially interesting business cases in the telecommunication and financial
industries, among others. Despite several studies on the suitability of voice within entity
authentication protocols, there has been little or no fo ...

Keywords: biometrics, entity authentication, modeling human factors, voice

8 Assurance in life/nation critical endeavors: Biometrics or ... biohazards?
John Michael Williams
September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW
'02**
Publisher: ACM Press
Full text available: 🔲 pdf(1.17 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>,
<u>review</u>

IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate
infrastructure, including underlying science that justifies its claims of detection,
classification, identification and authentication of individual human identities; particularly
of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so
on.This will now too often be literally a matter of life and death, both for the public and
the individuals identified.The "New Security Paradigm" em ...

9 Identification and authentication when users have multiple accounts
W. R. Shockley
August 1993 **Proceedings on the 1992-1993 workshop on New security paradigms
NSPW '92-93**
Publisher: ACM Press
Full text available: 🔲 pdf(788.71 KB)   Additional Information: <u>full citation</u>, <u>references</u>

10 SCADA systems: vulnerabilities and remediation
John D. Fernandez, Andres E. Fernandez
April 2005 **Journal of Computing Sciences in Colleges**, Volume 20 Issue 4
Publisher: Consortium for Computing Sciences in Colleges
Full text available: 🔲 pdf(161.25 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Supervisory Control and Data Acquisition, otherwise known as SCADA, is a system for
gathering real time data, controlling processes, and monitoring equipment from remote
locations. As more companies are implementing an open SCADA architecture through the
Internet to monitor critical infrastructure components such as power plants, oil and gas
pipelines, chemical refineries, flood control dams, and waste and water systems, vital
systems are becoming increasingly open to attack. This paper provides ...

11   What's happening: What's happening

January 2003 **interactions**, Volume 10 Issue 1

Publisher: ACM Press

Full text available: pdf(100.72 KB)   html(11.58 KB)   Additional Information: full citation, index terms

12   A fuzzy commitment scheme

Ari Juels, Martin Wattenberg

November 1999 **Proceedings of the 6th ACM conference on Computer and communications security CCS '99**

Publisher: ACM Press

Full text available: pdf(966.08 KB)   Additional Information: full citation, abstract, references, citings, index terms

We combine well-known techniques from the areas of error-correcting codes and cryptography to achieve a new type of cryptographic primitive that we refer to as a fuzzy commitment scheme. Like a conventional cryptographic commitment scheme, our fuzzy commitment scheme is both concealing and binding: it is infeasible for an attacker to learn the committed value, and also for the committer to decommit a value in more than one way. In a convent ...

13   Technical demonstration 1: media understanding and browsing: Online face detection and user authentication

Caroline Mallauran, Jean-Luc Dugelay, Florent Perronnin, Christophe Garcia

November 2005 **Proceedings of the 13th annual ACM international conference on Multimedia MULTIMEDIA '05**

Publisher: ACM Press

Full text available: pdf(387.82 KB)   Additional Information: full citation, abstract, references, index terms

The ability to verify automatically and with great accuracy the identity of a person has become crucial in everyday life. Biometrics is an emerging topic in the field of signal processing. Our research on biometrics aims at developing a complete framework useful to control access. This technical demo shows the latest image processing techniques for face detection developed at France Telecom and for face recognition developed at Eurécom. Using only one computer and one standard webcam, our b ...

Keywords: biometrics, face detection, face recognition, neural networks

14   Staying connected: Let your fingers do the talking

Meg McGinity

January 2005 **Communications of the ACM**, Volume 48 Issue 1

Publisher: ACM Press

Full text available: pdf(63.56 KB)   html(14.42 KB)   Additional Information: full citation, abstract, index terms

Biometrics is pointing its way into everyday applications. But figuring out how it fits into telecom and wireless services, never mind society, might just get downright touchy.

15   Protocols: Anonymous credentials with biometrically-enforced non-transferability

Russell Impagliazzo, Sara Miner More

October 2003 **Proceedings of the 2003 ACM workshop on Privacy in the electronic society WPES '03**

Publisher: ACM Press

Full text available: 🔲 pdf(251.66 KB)   Additional Information: full citation, abstract, references, index terms, review

We present a model and protocol for anonymous credentials. Rather than using deterrents to ensure non-transferability, our model uses secure hardware with biometric authentication capabilities.Using the model combining biometric authentication with anonymous credentials in the wallet-with-observer architecture proposed by Bleumer [4], we formalize the requirements of an anonymous credential protocol. In doing so, we define what it means for a protocol to be *strongly subliminal-free*, and s ...

Keywords: anonymous credentials, biometrics, non-transferability, revocation, subliminal-freeness

16 Posters & demos: Multimodal optimizations: can legacy systems defeat them?   ▬
John Harper, Donal Sweeney
November 2001 **Proceedings of the 2001 workshop on Perceptive user interfaces PUI '01**
Publisher: ACM Press
Full text available: 🔲 pdf(3.03 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes several results obtained during the implementation and evaluation of a speech complemented interface to a vehicle monitoring system. A speech complemented interface is one wherein the operations at the interface (keyboard and mouse, for instance) are complemented by operator speech not directly processed by the computer. Such systems from an interface perspective have 'low brow' multimodal characteristics. Typical domains include vehicle tracking applications (taxis, buses, ...

Keywords: legacy systems, mental models, multimodal interfaces, task analysis, user modeling

17 Authentication and authorization: Securing passwords against dictionary attacks   ▬
Benny Pinkas, Tomas Sander
November 2002 **Proceedings of the 9th ACM conference on Computer and communications security CCS '02**
Publisher: ACM Press
Full text available: 🔲 pdf(216.72 KB)   Additional Information: full citation, abstract, references, citings, index terms

The use of passwords is a major point of vulnerability in computer security, as passwords are often easy to guess by automated programs running dictionary attacks. Passwords remain the most widely used authentication method despite their well-known security weaknesses. User authentication is clearly a practical problem. From the perspective of a service provider this problem needs to be solved within real-world constraints such as the available hardware and software infrastructures. From a user' ...

18 Security: State based authentication   ▬
Saeed A. Rajput, Jihong Chen, Sam Hsu
March 2005 **Proceedings of the 43rd annual Southeast regional conference - Volume 2 ACM-SE 43**
Publisher: ACM Press
Full text available: 🔲 pdf(593.99 KB)   Additional Information: full citation, abstract, references, index terms

Access to systems that need protection is usually restricted by asking the user to prove her identity and to authenticate. Combination of user name and password (or PIN) is the most common technique used for this purpose. Unfortunately, user-name/password based authentication is vulnerable to various types of password guessing attacks. Some

techniques of making password guessing very difficult do exist. With these techniques, policies for very strong passwords can be avoided, however, they usual ...

Keywords: access control, attack, authentication, dictionary attack, help-desk, password, password management, rule-based attack, security, syllable attack, unauthorized access, vulnerabilities

19   Access control technology: On classifying access control implementations for
distributed systems
Kevin Kane, James C. Browne
June 2006 **Proceedings of the eleventh ACM symposium on Access control models
and technologies SACMAT '06**
Publisher: ACM Press
Full text available: 📄 pdf(210.74 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a classification of implementations of access control systems based on a lattice taxonomy where the axes are properties of the implementation. The current taxonomy has six axes representing:partitioning of control over sharing of access control credentials, distribution of the state relevant to access control decisions,.delity of policy enforcement, the identity resolution mechanism, local versus centralized decisions,and static or adaptive trust management.Analysis of implem ...

Keywords: access control, analysis, classification, distributed systems, taxonomies

20   Modern trends in authentication
David L. Lipton, Harry K. T. Wong
September 1985 **ACM SIGSAC Review**, Volume 3 Issue 2-4
Publisher: ACM Press
Full text available: 📄 pdf(517.65 KB)   Additional Information: full citation, abstract, references

Authentication is the process of verifying a person's claim of identity. The designers of secure computer systems have incorporated many techniques of user-validation from law enforcement, from industrial security, and from the financial community. Several methods have also been developed explicitly for use in computer systems. This paper will present an overview of all methods of authentication currently used in computer security. Implementation considerations will also be discussed.

Results 1 - 20 of 200   Result page: **1**   2   3   4   5   6   7   8   9   10   next

P ⊙ **RTAL**
USPTO

Search: ⦿ The ACM Digital Library ○ The Guide

biometric authentication and system operator   **SEARCH**

THE ACM DIGITAL LIBRARY

ᐸ Feedback Report a problem Satisfaction survey

Terms used: **biometric authentication** and **system operator**   Found **39,712** of **214,158**

Sort results by   relevance ▼   ◆ Save results to a Binder   Try an Advanced Search
Display results   expanded form ▼   ? Search Tips   Try this search in The ACM Guide
                         □ Open results in a new window

Results 21 - 40 of 200   Result page: previous **1** **2** 3 4 5 6 7 8 9 10   next
Best 200 shown   Relevance scale □□◼◼◼

21 Location, tracking, nomadic computing: A bluetooth infrastructure for automatic
services access in ubiquitous and nomadic computing environments
Massimo Ficco, Maurizio D'Arienzo, Gianni D'Angelo
October 2007 **Proceedings of the 5th ACM international workshop on Mobility
management and wireless access MobiWac '07**
Publisher: ACM
Full text available: 🗎 pdf(964.58 KB)   Additional Information: full citation, abstract, references, index terms

   The proliferation of mobile devices and wireless technologies pave the ground to new
   scenarios that attract the interest of service providers and business operators. However,
   to let mobile users able to receive the same services independently from the context in
   which they operate, several open issues need to be solved. One of these issues is related
   to the current levels of security that often require mobile users to exchange secret
   credentials with the network operators or an authentication ...

   Keywords: Bluetooth, authentication, context-aware, ubiquitous computing, wireless LAN
   access

22 Assurance in life/nation critical endeavors: Assurance in life/nation critical endeavors
◈ a panel
Steven J. Greenwald, Marv Schaefer
September 2002 **Proceedings of the 2002 workshop on New security paradigms NSPW
'02**
Publisher: ACM Press
Full text available: 🗎 pdf(509.28 KB)   Additional Information: full citation, abstract, index terms

   Our thesis is that biometric and other intertwined technologies will be used to supplement
   the work of people in the security field. When these technologies are used, we fear that a
   high degree of misinterpretation and error is likely. Because of this, we need to identify
   the technical measures required for these systems. This thesis, along with a justification,
   and proof sketch, was given to the panelists.Five areas of the technology life-cycle were
   investigated: modeling, implementation, inter ...

23 Security in embedded systems: Design challenges
◈ Srivaths Ravi, Anand Raghunathan, Paul Kocher, Sunil Hattangady
August 2004 **ACM Transactions on Embedded Computing Systems (TECS),** Volume 3 Issue
3

Publisher: ACM Press

Full text available: 📄 pdf(3.67 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Many modern electronic systems---including personal computers, PDAs, cell phones, network routers, smart cards, and networked sensors to name a few---need to access, store, manipulate, or communicate sensitive information, making security a serious concern in their design. Embedded systems, which account for a wide range of products from the electronics, semiconductor, telecommunications, and networking industries, face some of the most demanding security concerns---on the one hand, they are oft ...

Keywords: Embedded systems, architecture, authentication, battery life, cryptographic algorithms, decryption, encryption, hardware design, processing requirements, security, security attacks, security protocols, tamper resistance

---

24 Identity authentication based on keystroke latencies

Rick Joyce, Gopal Gupta

February 1990 **Communications of the ACM**, Volume 33 Issue 2

Publisher: ACM Press

Full text available: 📄 pdf(823.00 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

The variables that help make a handwritten signature a unique human identifier also provide a unique digital signature in the form of a stream of latency periods between keystrokes. This article describes a method of verifying the identity of a user based on such a digital signature, and reports results from trial usage of the system.

---

25 On-line e-wallet system with decentralized credential keepers

Stig Frode Mjølsnes, Chunming Rong

February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1

Publisher: Kluwer Academic Publishers

Full text available: 📄 pdf(240.23 KB)   Additional Information: full citation, abstract, references, index terms

We propose a generalization of the architecture of an electronic wallet, as first developed in the seminal European research project CAFE. With this model you can leave most of the content of your electronic wallet at the security of your residential electronic keeper, while roaming with your favorite mobile terminals. Emerging mobile handsets with both short range Bluetooth and cellular GPRS communications provide a sufficient communication platform for this electronic wallet architecture. Howe ...

Keywords: digital credentials, e-wallet architecture, mobile commerce, payment protocols, privacy

---

26 Security: Sound methods and effective tools for model-based security engineering with UML

Jan Jürjens

May 2005 **Proceedings of the 27th International conference on Software engineering ICSE '05 , Proceedings of the 27th international conference on Software engineering ICSE '05**

Publisher: ACM Press, IEEE Computer Society

Full text available: 📄 pdf(205.95 KB)   Additional Information: full citation, abstract, references, citings, index terms
🖥 Publisher Site

Developing security-critical systems is difficult and there are many well-known examples of security weaknesses exploited in practice. Thus a sound methodology supporting

secure systems development is urgently needed.We present an extensible verification framework for verifying UML models for security requirements. In particular, it includes various plugins performing different security analyses on models of the security extension UMLsec of UML. Here, we concentrate on an automated theorem prove ...

Keywords: UML, cryptographic protocol, security, unified modeling language, verification biometric authentication, verification framework

27 Session 2: survivability: Safe and sound: a safety-critical approach to security
Sacha Brostoff, M. Angela Sasse
September 2001 **Proceedings of the 2001 workshop on New security paradigms NSPW '01**
Publisher: ACM Press

Full text available: pdf(1.04 MB)   Additional Information: full citation, abstract, references, citings, index terms

This paper firstly argues that the design of security applications needs to consider more than technical elements. Since almost all security systems involve human users as well as technology, security should be considered, and designed as, a socio-technical work system. Secondly, we argue that safety-critical systems design has similar goals and issues to security design, and should thus provide a good starting point. Thirdly, we identify Reason's (1990) *Generic Error Modeling System/Basic El* ...

28 Image and video processing for multimedia surveillance systems: Multimedia surveillance systems
Rita Cucchiara
November 2005 **Proceedings of the third ACM international workshop on Video surveillance & sensor networks VSSN '05**
Publisher: ACM Press
Full text available: pdf(372.86 KB)   Additional Information: full citation, abstract, references, index terms

The integration of video technology and sensor networks constitutes the fundamental infrastructure for new generations of *multimedia surveillance systems*, where many different media streams (audio, video, images, textual data, sensor signals) will concur to provide an automatic analysis of the controlled environment and a real-time interpretation of the scene. New solutions can be devised to enlarge the view of traditional surveillance systems by means of distributed architectures with fi ...

Keywords: multiple cameras, sensor network, survey, video surveillance

29 Trusted products evaluation
Santosh Chokhani
July 1992 **Communications of the ACM**, Volume 35 Issue 7
Publisher: ACM Press

Full text available: pdf(4.09 MB)   Additional Information: full citation, references, citings, index terms, review

Keywords: TCSEC, covert channel analysis, integrity, security, trust

30 Trustworthy systems: Symmetric behavior-based trust: a new paradigm for internet computing
Vivek Haldar, Michael Franz

September 2004 **Proceedings of the 2004 workshop on New security paradigms NSPW '04**
Publisher: ACM Press
Full text available: 🔁 pdf(76.86 KB)   Additional Information: full citation, abstract, references

Current models of Internet Computing are highly asymmetric - a host protects itself from malicious mobile Java programs, but there is no way to get assurances about the behavior of a program running remotely. The asymmetry stems from a behavior-based security model: hosts ensure conformance to a given security policy by restricting the actions of programs. In contrast, security models that are based on cryptography (including code signing) are inherently symmetric by design but do not match the ...

31 Bioinformatics and ethics: 3D face authentication by mutual coupled 3D and 2D feature extraction
T. H. Lin, W. P. Shih, W. C. Chen, W. Y. Ho
March 2006 **Proceedings of the 44th annual Southeast regional conference ACM-SE 44**
Publisher: ACM Press
Full text available: 🔁 pdf(249.28 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a novel method for automatic 3D face authentication. We introduce a coupled 2D and 3D feature-extraction method to determine the positions of eye sockets. The nose tip is considered as the extreme vertex along the normal directions of eye sockets. Once the nose tip and eye sockets are found, the bilateral symmetrical plane will be determined. The central profile which is on the bilateral symmetrical plane is the foundation for recognizing human face in our method. We us ...

Keywords: automatic feature detection, face authentication, face recognition

32 Columns: Risks to the public in computers and related systems
Peter G. Neumann
November 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 6
Publisher: ACM Press
Full text available: 🔁 pdf(124.63 KB)   Additional Information: full citation

33 A smartcard for authentication in WLANs
Marc Loutrel, Pascal Urien, Guy Pujolle
October 2003 **Proceedings of the 2003 IFIP/ACM Latin America conference on Towards a Latin American agenda for network research LANC '03**
Publisher: ACM Press
Full text available: 🔁 pdf(333.05 KB)   Additional Information: full citation, abstract, references, index terms

Wireless LANs based on the IEEE 802.11b standard have spread very quickly over the past few years. Nevertheless a lot of security issues remain and stop its deployment in corporations. One of the most important issues is the authentication of a terminal to an Access Point. We propose an interface to integrate the Extensible Authentication Protocol into smartcards and will show that smartcards could constitute the de-facto device for authentication in Wireless LAN as they are for GSM and will ...

Keywords: authentication, smartcard, wireless LANs

34 Security issues for wireless ATM networks
Danai Patiyoot

◈ January 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue 1
Publisher: ACM Press
Full text available: 🔲 pdf(1.75 MB)   Additional Information: full citation, abstract, references, index terms

> To be able to fulfil the need of user in wireless ATM, the system has to acquire features. One of the system features for the wireless ATM is functionality especially the security aspect. There is so far tittle, if not none, security consideration in the developing of wireless ATM standard. Therefore a wide range of features in security functions is in consideration. This paper tried to define the features of security in wireless ATM networks considering it features from existing fixed ATM netwo ...

> **Keywords:** security, wireless ATM

35 Invited Discussions: Interacting with identification technology: can it make us more
◈ secure?
Jean Scholtz, Jeff Johnson, Ben Shneiderman, Peter Hope-Tindall, Marcus Gosling, Jonathon Phillips, Alan Wexelblat
April 2002 **CHI '02 extended abstracts on Human factors in computing systems CHI '02**
Publisher: ACM Press
Full text available: 🔲 pdf(142.76 KB)   Additional Information: full citation, citings

> **Keywords:** biometrics, civil liberties, face recognition, national id card, privacy, security

36 Computer security: A conceptual framework for testing biometric algorithms within
◈ operating systems' authentication
Arslan Brömme, Marcel Kronberg, Oliver Ellenbeck, Oliver Kasch
March 2002 **Proceedings of the 2002 ACM symposium on Applied computing SAC '02**
Publisher: ACM Press
Full text available: 🔲 pdf(675.28 KB)   Additional Information: full citation, abstract, references, index terms

> This paper presents a conceptual framework for testing the implementation of biometric algorithms within Unix and Windows NT/2000 operating systems' login authentication. To support the analysis and evaluation of biometric algorithms, a data logging module will be used, enabling the collection of quantitative data, e.g. timestamps, biometric raw data, (pre)processed data, and return codes from each run of a biometric authentication. It is shown how biometric algorithms and a data logging module ...

> **Keywords:** biometric authentication, evaluation, operating system, robustness, testing biometric algorithms

37 Applied cryptography: Reusable cryptographic fuzzy extractors
◈ Xavier Boyen
October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**
Publisher: ACM Press
Full text available: 🔲 pdf(251.61 KB)   Additional Information: full citation, abstract, references, citings, index terms

> We show that a number of recent definitions and constructions of fuzzy extractors are not adequate for multiple uses of the same fuzzy secret---a major shortcoming in the case of biometric applications. We propose two particularly stringent security models that

specifically address the case of fuzzy secret reuse, respectively from an outsider and an insider perspective, in what we call a chosen perturbation attack. We characterize the conditions that fuzzy extractors need to satisfy to be sec ...

Keywords: biometric keying, chosen perturbation security, fuzzy extractor, zero storage biometric authentication

38 Consistency enforcement and secure grids: Mesh: secure, lightweight grid
    middleware using existing SSH infrastructure
    Paul Z. Kolano
    June 2007 **Proceedings of the 12th ACM symposium on Access control models and technologies SACMAT '07**
    Publisher: ACM Press
    Full text available: pdf(178.90 KB)   Additional Information: full citation, abstract, references, index terms

    Grid computing promises gains in effective computational power, resource utilization, and resource accessibility, but in order to achieve these gains, organizations must deploy grid middleware that, in most cases, does not adhere to fundamental security principles. This paper introduces a new lightweight grid middleware called Mesh, which is based on the addition of a single sign-on capability to the built-in public key authentication mechanism of SSH using system call interposition. The init ...

    Keywords: SSH, access control, authentication, authorization, delegation, distributed systems, grids, middleware, security, single sign-on

39 Payments and banking with mobile personal devices
    Amir Herzberg
    May 2003 **Communications of the ACM**, Volume 46 Issue 5
    Publisher: ACM Press
    Full text available: pdf(152.82 KB)   Additional Information: full citation, abstract, references, citings, index
                         html(31.60 KB)   terms, review

    Mobile devices enable secure, convenient authorization of e-banking, retail payment, brokerage, and other types of transactions.

40 Posters: Towards robust person recognition on handheld devices using face and
    speaker identification technologies
    Timothy J. Hazen, Eugene Weinstein, Alex Park
    November 2003 **Proceedings of the 5th international conference on Multimodal interfaces ICMI '03**
    Publisher: ACM Press
    Full text available: pdf(118.84 KB)   Additional Information: full citation, abstract, references, citings, index
                                                                   terms

    Most face and speaker identification techniques are tested on data collected in controlled environments using high quality cameras and microphones. However, the use of these technologies in variable environments and with the help of the inexpensive sound and image capture hardware present in mobile devices presents an additional challenge. In this study, we investigate the application of existing face and speaker identification techniques to a person identification task on a handheld device. The ...

    Keywords: face identification, handheld devices, multi-biometric interfaces, speaker identification

Terms used: **biometric** **authentication** and **system** **operator**   Found **39,712** of **214,158**

Sort results by | relevance ▾ | ◆ Save results to a Binder   Try an Advanced Search
Display results | expanded form ▾ | ? Search Tips   Try this search in The ACM Guide
                                     □ Open results in a new window

Results 41 - 60 of 200   Result page: previous 1 2 **3** 4 5 6 7 8 9 10   next
Best 200 shown   Relevance scale ▢▭▬▬■■

41 Columns: Risks to the public in computers and related systems   ■
Peter G. Neumann
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2
Publisher: ACM Press
Full text available: 🗎 pdf(165.39 KB)   Additional Information: full citation

42 A model of OASIS role-based access control and its support for active security   ▬
Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**,
                Volume 5 Issue 4
Publisher: ACM Press
Full text available: 🗎 pdf(352.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of
services in an open, distributed environment. The aim of OASIS is to allow autonomous
management domains to specify their own access control policies and to interoperate
subject to service level agreements (SLAs). Services define roles and implement formally
specified policy to control role activation and service use; users must present the required
credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access
control, service-level agreements

43 Risks to the public: Risks to the public in computers and related systems   ▬
Peter G. Neumann
September 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 5
Publisher: ACM Press
Full text available: 🗎 pdf(105.37 KB)   Additional Information: full citation, abstract

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
Committee on Computers and Public Policy), plus personal contributions by others, as
indicated. Opinions expressed are individual rather than organizational, and all of the
usual disclaimers apply. We address problems relating to software, hardware, people, and
other circumstances that affect computer systems. To economize on space, we tersify
most items and include pointers to items in the online Risks Forum: (R i j) deno ...

44 Session 2: Email feedback: a policy-based approach to overcoming false positives
Saket Kaushik, William Winsborough, Duminda Wijesekera, Paul Ammann
November 2005 **Proceedings of the 2005 ACM workshop on Formal methods in security engineering FMSE '05**
Publisher: ACM Press
Full text available: pdf(205.07 KB)   Additional Information: full citation, abstract, references, index terms

> Current email-control mechanisms, though highly effective, are pro-ne to dropping desirable messages. This can be attributed to their coarseness in filtering out undesirable messages from desirable ones. As a result policies to control undesirable messages are often overly permissive. To allow policies to be more restrictive, the transmission mechanism must be made aware of the ways to document a message so that it is acceptable downstream, thus giving the senders a chance of meeting those requi ...
>
> **Keywords**: constraint logic programming, email/spam control, policy advertisement, policy feedback

45 Reflection as a mechanism for software integrity verification
Diomidis Spinellis
February 2000 **ACM Transactions on Information and System Security (TISSEC)**, Volume 3 Issue 1
Publisher: ACM Press
Full text available: pdf(85.99 KB)   Additional Information: full citation, abstract, references, index terms, review

> The integrity verification of a device's controlling software is an important aspect of many emerging information appliances. We propose the use of reflection, whereby the software is able to examine its own operation, in conjunction with cryptographic hashes as a basis for developing a suitable software verification protocol. For more demanding applications meta-reflective techniques can be used to thwart attacks based on device emulation strategies. We demonstrate how our approach can be ...
>
> **Keywords**: cryptographic hash function, embedded device, message digest

46 Design considerations: Divide and conquer: the role of trust and assurance in the design of secure socio-technical systems
Ivan Flechais, Jens Riegelsberger, M. Angela Sasse
September 2005 **Proceedings of the 2005 workshop on New security paradigms NSPW '05**
Publisher: ACM Press
Full text available: pdf(2.79 MB)   Additional Information: full citation, abstract, references

> In order to be effective, secure systems need to be both correct (i.e. effective when used as intended) and dependable (i.e. actually being used as intended). Given that most secure systems involve people, a strategy for achieving dependable security must address both people and technology. Current research in Human-Computer Interactions in Security (HCISec) aims to increase dependability of the human element by reducing mistakes (e.g. through better user interfaces to security tools). We argue ...

47 Special session 1: machine learning for visual information retrieval: An interactive system for mental face retrieval
Yuchun Fang, Donald Geman, Nozha Boujemaa
November 2005 **Proceedings of the 7th ACM SIGMM international workshop on Multimedia information retrieval MIR '05**

Publisher: ACM Press
Full text available: 📄 pdf(222.60 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We propose a system to "retrieve" the mental image of a face from a large database using Bayesian inference and relevance feedback. Since the "target image" exists only in the mind of the user, mental image retrieval differs sharply from standard, example-based retrieval and has not been widely studied. In designing the relevance feedback engine, we adopt probabilistic models for the display and answer processes. The answer model is designed to capture properties of human cognition in choosing a ...

48 <u>An interactive codesign environment for domain-specific coprocessors</u>
Patrick Schaumont, Doris Ching, Ingrid Verbauwhede
January 2006 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 11 Issue 1
Publisher: ACM Press

Full text available: 📄 pdf(406.61 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Energy-efficient embedded systems rely on domain-specific coprocessors for dedicated tasks such as baseband processing, video coding, or encryption. We present a language and design environment called GEZEL that can be used for the design, verification and implementation of such coprocessor-based systems. The GEZEL environment creates a platform simulator by combining a hardware simulation kernel with one or more instruction-set simulators. The hardware part of the platform is programmed in GEZEL ...

Keywords: Cosimulation, hardware description language, hardware-software codesign

49 <u>Chip-secured data access: confidential data on untrusted servers</u>
Luc Bouganim, Philippe Pucheral
August 2002 **Proceedings of the 28th international conference on Very Large Data Bases - Volume 28 VLDB '2002**
Publisher: VLDB Endowment
Full text available: 📄 pdf(138.58 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

The democratization of ubiquitous computing (access data anywhere, anytime, anyhow), the increasing connection of corporate databases to the Internet and the today's natural resort to Web-hosting companies strongly emphasize the need for data confidentiality. Database servers arouse user's suspicion because no one can fully trust traditional security mechanisms against more and more frequent and malicious attacks and no one can be fully confident on an invisible DBA administering confidential ...

50 <u>Access management for distributed systems: Using trust and risk in role-based access control policies</u>
Nathan Dimmock, András Belokosztolszki, David Eyers, Jean Bacon, Ken Moody
June 2004 **Proceedings of the ninth ACM symposium on Access control models and technologies SACMAT '04**
Publisher: ACM Press

Full text available: 📄 pdf(222.48 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Emerging trust and risk management systems provide a framework for principals to determine whether they will exchange resources, without requiring a complete definition of their credentials and intentions. Most distributed access control architectures have far more rigid policy rules, yet in many respects aim to solve a similar problem. This paper elucidates the similarities between trust management and distributed access control systems by demonstrating how the OASIS access control system and i ...

Keywords: OASIS, SECURE, access control, risk, trust

51 Multilateral security a concept and examples for balanced security
Kai Rannenberg
February 2001 **Proceedings of the 2000 workshop on New security paradigms NSPW '00**
Publisher: ACM Press
Full text available: pdf(1.05 MB)   Additional Information: full citation, references, citings, index terms

Keywords: GSM, mobile communication, multilateral security, negotiation, privacy, protection, reachability management, security management, simulation study

52 Special session 2: query systems for data retrieval in large personal image and video databases: Human performance measures for video retrieval
Gary Marchionini
October 2006 **Proceedings of the 8th ACM international workshop on Multimedia information retrieval MIR '06**
Publisher: ACM Press
Full text available: pdf(454.14 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we describe the challenges of assessing human performance during video retrieval episodes and describe several measures of human performance that have been used in developing visual surrogates for the Open Video Digital Library (http://www.open-video.org). These include two sets of cognitive performance measures that aim to assess human recognition and inference and a set of attitudinal measures that aim to assess user satisfaction with video surrogates.

Keywords: exploratory search, human-computer information retrieval, information interaction, video retrieval

53 Security, privacy and anonymity: Privacy preserving multi-factor authentication with biometrics
Abhilasha Bhargav-Spantzel, Anna Squicciarini, Elisa Bertino
November 2006 **Proceedings of the second ACM workshop on Digital identity management DIM '06**
Publisher: ACM Press
Full text available: pdf(228.45 KB)   Additional Information: full citation, abstract, references, index terms

An emerging approach to the problem of reducing the identity theft is represented by the adoption of biometric authentication systems. Such systems however present however several challenges, related to privacy, reliability, security of the biometric data. Inter-operability is also required among the devices used for the authentication. Moreover, very often biometric authentication in itself is not sufficient as a conclusive proof of identity and has to be complemented with multiple other proofs ...

Keywords: authentication, biometrics, identity theft prevention, privacy

54 Perceptual user interfaces: perceptual intelligence
Alex Pentland
March 2000 **Communications of the ACM**, Volume 43 Issue 3

Publisher: ACM Press
Full text available: 🔒 pdf(812.65 KB)   Additional Information: full citation, references, citings, index terms
         🔘 html(33.98 KB)

---

55   Session 2: Local spatiotemporal descriptors for visual recognition of spoken phrases   ▬
   Guoying Zhao, Matti Pietikäinen, Abdenour Hadid
   September 2007   **Proceedings of the international workshop on Human-centered multimedia HCM '07**
Publisher: ACM Press
Full text available: 🔒 pdf(614.07 KB)   Additional Information: full citation, abstract, references, index terms

    Visual speech information plays an important role in speech recognition under noisy
    conditions or for listeners with hearing impairment. In this paper, we propose local
    spatiotemporal descriptors to represent and recognize spoken isolated phrases based
    solely on visual input. Positions of the eyes determined by a robust face and eye detector
    are used for localizing the mouth regions in face images. Spatiotemporal local binary
    patterns extracted from these regions are used for describing phras ...

    Keywords: face and eye detection, local spatiotemporal descriptors, mouth region
    localization, visual speech recognition

---

56   Risks to the public: Risks to the public   ▬
   Peter G. Neumann
   July 2005   **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: 🔒 pdf(151.77 KB)   Additional Information: full citation, abstract, index terms

    Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM
    Committee on Computers and Public Policy), plus personal contributions by others, as
    indicated. Opinions expressed are individual rather than organizational, and all of the
    usual disclaimers apply. We address problems relating to software, hardware, people, and
    other circumstances relating to computer systems. To economize on space, we include
    pointers to items in the online Risks Forum: (R i j) denotes RISKS vol i number ...

---

57   Application specific architectures: Microcoded coprocessor for embedded secure   ▬
   biometric authentication systems
   Shenglin Yang, Patrick Schaumont, Ingrid Verbauwhede
   September 2005   **Proceedings of the 3rd IEEE/ACM/IFIP international conference on
                   Hardware/software codesign and system synthesis CODES+ISSS
                   '05 , Proceedings of the 3rd IEEE/ACM/IFIP international conference
                   on Hardware/software codesign and system synthesis CODES+ISSS
                   '05**
Publisher: ACM Press, IEEE Computer Society
Full text available: 🔒 pdf(292.29 KB)   Additional Information: full citation, abstract, references, index terms
         🔘 Publisher Site

    We design and implement a cryptographic biometric authentication system using a
    microcoded architecture. The secure properties of the biometric matching process are
    obtained by means of a fuzzy vault scheme. The algorithm is implemented in a
    reprogrammable, microcoded coprocessor called FV16. We present the micro-architecture
    of FV16 as well as a dedicated assembler for this architecture. Our coprocessor can be
    attached to an ARM processor, and offers a 83-fold cycle count improvement when the
    f ...

Keywords: cryptographic biometrics, fingerprint verification., fuzzy vault scheme, microcoded coprocessor

58 Network security metrics: Framework for malware resistance metrics
Hanno Langweg
October 2006 **Proceedings of the 2nd ACM workshop on Quality of protection QoP '06**
Publisher: ACM Press
Full text available: pdf(170.29 KB)   Additional Information: full citation, abstract, references, index terms

We survey existing security metrics in software architecture and software engineering. Metrics are adapted to indicate resistance of an application against local malicious software (malware) attacks. A repository of generic attacks is presented as well as the concept of resistance classes for software products.

Keywords: malware, resistance, software architecture

59 Challenges and constraints to the diffusion of biometrics in information systems
Akhilesh Chandra, Thomas Calderon
December 2005 **Communications of the ACM**, Volume 48 Issue 12
Publisher: ACM Press
Full text available: pdf(95.28 KB)
html(30.91 KB)   Additional Information: full citation, abstract, references, index terms

Biometrics are a promising technology for improving security, if they can overcome technical and social challenges.

60 Computer security (SEC): Protected transmission of biometric user authentication data for oncard-matching
Ulrich Waldmann, Dirk Scheuermann, Claudia Eckert
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing SAC '04**
Publisher: ACM Press
Full text available: pdf(574.45 KB)   Additional Information: full citation, abstract, references

Since fingerprint data are no secrets but of public nature, the verification data transmitted to a smartcard for oncard-matching need protection by appropriate means in order to assure data origin in the biometric sensor and to prevent bypassing the sensor. For this purpose, the verification data to be transferred to the user smartcard is protected with a cryptographic checksum that is calculated within a separate security module controlled by a tamper resistant card terminal with integrated bio ...

Keywords: authentication, biometrics, cryptographic protocols, data integrity, electronic signature, oncard-matching, smartcards, system security, tamper proof environment